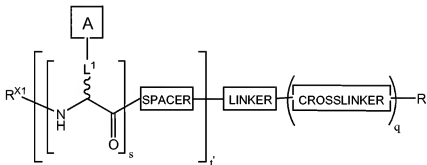


## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

1. **(Previously Presented)** A clustered multi-antigenic construct having the structure:



wherein q is 0 or 1;

each occurrence of s is independently an integer from 1-20;

t' is an integer from 2-6;

R<sup>X1</sup> is hydrogen, alkyl, acyl, aryl, heteroaryl, -alkyl(aryl), -alkyl(heteroaryl), a nitrogen protecting group, an amino acid or a protected amino acid;

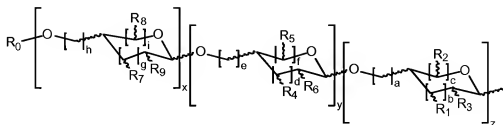
R is hydrogen or an immunogenic carrier;

each occurrence of the spacer is independently a substituted or unsubstituted aliphatic, heteroaliphatic, aryl, heteroaryl or peptidic moiety;

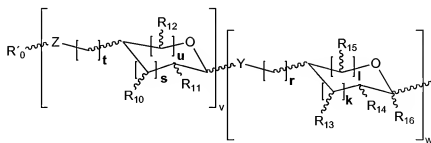
the linker is either a free carboxylic acid, -O-, (carboxamido)alkyl carboxamide, MBS, primary carboxamide, mono- or dialkyl carboxamide, mono- or diarylcarboxamide, linear or branched chain (carboxy)alkyl carboxamide, linear or branched chain (alkoxycarbonyl)alkyl-carboxamide, linear or branched chain (carboxy)arylalkylcarboxamide, linear or branched chain (alkoxycarbonyl)alkylcarboxamide, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester;

each occurrence of L<sup>1</sup> is independently a substituted or unsubstituted aliphatic or heteroaliphatic moiety;

each occurrence of A is independently a carbohydrate determinant having the structure:



wherein a, b, c, d, e, f, g, h, i, x, y and z are independently 0, 1, 2 or 3, with the proviso that the x, y and z bracketed structures represent pyranose moieties and the sum of b and c is 2, the sum of d and f is 2, and the sum of g and i is 2, and with the proviso that x, y and z are not simultaneously 0; wherein R<sub>0</sub> is hydrogen, a linear or branched chain alkyl, acyl, arylalkyl or aryl group; wherein each occurrence of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub> and R<sub>9</sub> is independently hydrogen, OH, OR<sup>i</sup>, NHR<sup>i</sup>, NHCOR<sup>i</sup>, F, CH<sub>2</sub>OH, CH<sub>2</sub>OR<sup>i</sup>, a substituted or unsubstituted linear or branched chain alkyl, (mono-, di- or tri)hydroxyalkyl, (mono-, di- or tri)acyloxyalkyl, arylalkyl or aryl group; wherein each occurrence of R<sup>i</sup> is independently hydrogen, CHO, COOR<sup>ii</sup>, or a substituted or unsubstituted linear or branched chain alkyl, acyl, arylalkyl or aryl group or a saccharide moiety having the structure:



wherein Y and Z are independently NH or O; wherein k, l, r, s, t, u, v and w are each independently 0, 1 or 2; with the proviso that the v and w bracketed structures represent pyranose moieties and the sum of l and k is 2, and the sum of s and u is 2, and with the proviso that v and w are not simultaneously 0; wherein R'<sub>0</sub> is hydrogen, a linear or branched chain alkyl, acyl, arylalkyl or aryl group; wherein each occurrence of R<sub>10</sub>,

R<sub>11</sub>, R<sub>12</sub>, R<sub>13</sub>, R<sub>14</sub> and R<sub>15</sub> is independently hydrogen, OH, OR<sup>iii</sup>, NHR<sup>iii</sup>, NHCOR<sup>iii</sup>, F, CH<sub>2</sub>OH, CH<sub>2</sub>OR<sup>iii</sup>, or a substituted or unsubstituted linear or branched chain alkyl, (mono-, di- or tri)hydroxyalkyl, (mono-, di- or tri)acyloxyalkyl, arylalkyl or aryl group; wherein each occurrence of R<sub>16</sub> is hydrogen, COOH, COOR<sup>ii</sup>, CONHR<sup>ii</sup>, a substituted or unsubstituted linear or branched chain alkyl or aryl group; wherein each occurrence of R<sup>iii</sup> is hydrogen, CHO, COOR<sup>iv</sup>, or a substituted or unsubstituted linear or branched chain alkyl, acyl, arylalkyl or aryl group; and wherein each occurrence of R<sup>ii</sup> and R<sup>iv</sup> are each independently H, or a substituted or unsubstituted linear or branched chain alkyl, arylalkyl or aryl group;

with the proviso that all occurrences of A on the multi-antigenic glycopeptide are not the same;

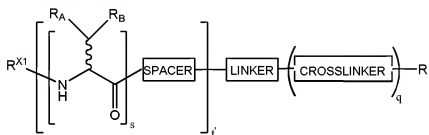
with the limitation that each occurrence of A independently comprises a carbohydrate domain, or elongated version thereof, that is present on tumor cells.

2. **(Previously Presented)** The construct of claim 1 wherein t' is  $\geq 2$  and within each bracketed structure s, independently, each occurrence of A is the same.
3. **(Original)** The construct of claim 1, wherein occurrences of A from one bracketed structure s to the next are different.
4. **(Original)** The construct of claim 1, wherein A, for each occurrence, is independently selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, N3, Tn, TF, STN, (2,3)ST, 2,6-STn, Gb3, Le<sup>y</sup> and Le<sup>x</sup>.
5. **(Previously Presented)** The construct of claim 1, wherein each occurrence of L<sup>1</sup> is independently a moiety having the structure  $-O(CH_2)_n-$  wherein n is an integer from 1-10; or a natural amino acid side chain, wherein a hydrogen radical of the natural amino acid side chain has been removed and replaced with a carbohydrate moiety A as defined in claim 1.

6. **(Original)** The construct of claim 5, wherein each occurrence of  $L^1$  is independently a moiety having the structure  $-O(CH_2)_n-$  wherein n is an integer from 1-10.

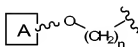
7. **(Original)** The construct of claim 6, wherein n is 3.

8. **(Previously Presented)** The construct of claim 1, having the structure:



wherein each occurrence of  $R_A$  is independently H or methyl; and

wherein each occurrence of  $R_B$  is independently an alkyl glycoside moiety having the structure:



wherein n is an integer from 0-9;

wherein A, for each occurrence, is independently selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, N3, Tn, TF, STN, (2,3)ST, 2,6-STn, Gb3, Le<sup>y</sup> and Le<sup>x</sup>.

9. **(Original)** The construct of claim 1, wherein  $R^{X1}$  is an acyl moiety.

10. **(Original)** The construct of claim 9, wherein  $R^{X1}$  is an amino acid residue.

11. **(Original)** The construct of claim 1, wherein the spacer, for each occurrence, is independently a substituted or unsubstituted  $C_{1,6}$ alkylidene or  $C_{2,6}$ alkenylidene chain wherein up to two non-adjacent methylene units are independently optionally replaced by CO, CO<sub>2</sub>, COCO, CONR<sup>Z1</sup>, OCONR<sup>Z1</sup>, NR<sup>Z1</sup>NR<sup>Z2</sup>, NR<sup>Z1</sup>NR<sup>Z2</sup>CO, NR<sup>Z1</sup>CO, NR<sup>Z1</sup>CO<sub>2</sub>,

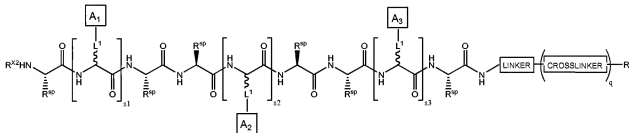
$\text{NR}^{\text{Z1}}\text{CONR}^{\text{Z2}}$ ,  $\text{SO}$ ,  $\text{SO}_2$ ,  $\text{NR}^{\text{Z1}}\text{SO}_2$ ,  $\text{SO}_2\text{NR}^{\text{Z1}}$ ,  $\text{NR}^{\text{Z1}}\text{SO}_2\text{NR}^{\text{Z2}}$ ,  $\text{O}$ ,  $\text{S}$ , or  $\text{NR}^{\text{Z1}}$ ; wherein each occurrence of  $\text{R}^{\text{Z1}}$  and  $\text{R}^{\text{Z2}}$  is independently hydrogen, alkyl, heteroalkyl, aryl, heteroaryl or acyl; a peptidyl moiety or a bivalent aryl or heteroaryl moiety.

12. **(Currently Amended)** The construct of claim 1, wherein the spacer, for each occurrence, is independently  $-(\text{CHR}^{\text{sp}})_n$ , where  $n$  is 1-8 and each occurrence of  $\text{R}^{\text{sp}}$  is independently hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, -alkyl(aryl), -alkyl(heteroaryl),  $-\text{OR}^{\text{sp1}}$ ,  $-\text{SR}^{\text{sp1}}$  or  $-\text{NR}^{\text{sp1}}\text{R}^{\text{sp2}}$  where  $\text{R}^{\text{sp1}}$  and  $\text{R}^{\text{sp2}}$  are independently hydrogen or lower alkyl; a peptidyl moiety comprising one or more  $\alpha$ -amino acid residues, or a bivalent aryl moiety having the structure:



13. **(Original)** The construct of claim 1, wherein each occurrence of the spacer is independently a dipeptidyl moiety.

14. **(Currently Amended)** The construct of claim 1, wherein  $t'$  is 3, each occurrence of the spacer that is not directly attached to the linker is independently a dipeptidyl moiety and the glycopeptide has the structure:

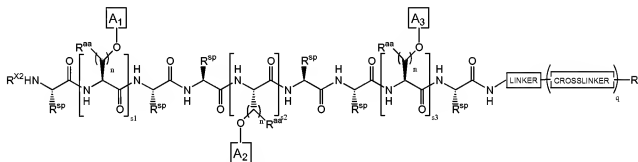


wherein  $\text{L}^1$  is as defined in claim 1; wherein  $\text{R}^{\text{sp}}$  is independently hydrogen, alkyl, cycloalkyl, aryl, heteroaryl, -alkyl(aryl), -alkyl(heteroaryl),  $-\text{OR}^{\text{sp1}}$ ,  $-\text{SR}^{\text{sp1}}$  or  $-\text{NR}^{\text{sp1}}\text{R}^{\text{sp2}}$  where  $\text{R}^{\text{sp1}}$  and  $\text{R}^{\text{sp2}}$  are independently hydrogen or lower alkyl; a peptidyl moiety comprising one or more  $\alpha$ -amino acid residues, or a bivalent aryl moiety having the structure:



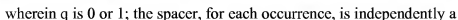
s1, s2 and s3 are independently integers from 2-5; A<sub>1</sub>-A<sub>3</sub> are carbohydrate domains, as defined for A in claim 1, and are different from each other; and R<sup>X2</sup> is hydrogen, alkyl, acyl, aryl, heteroaryl, -alkyl(aryl), -alkyl(heteroaryl) or a nitrogen protecting group.

15. (Original) The construct of claim 14 having the structure:



wherein R, R<sup>X2</sup>, R<sup>sp</sup>, s1, s2 and s3 and A1-A3 are as defined in claim 14; each occurrence of n is independently an integer from 1-10; and each occurrence of R<sup>aa</sup> is hydrogen, lower alkyl, aryl, heteroaryl, -alkyl(aryl) or -alkyl(heteroaryl).

16. **(Original)** The construct of claim 15, wherein each occurrence of n is 1 and each occurrence of R<sup>aa</sup> is hydrogen or methyl.
17. **(Original)** The construct of claim 15, wherein each occurrence of n is independently an integer from 1-10 and each occurrence of R<sup>aa</sup> is hydrogen.
18. **(Original)** The construct of claim 15, wherein each occurrence of R<sup>sp</sup> is independently a natural amino acid side chain.
19. **(Original)** The construct of claim 18, wherein each occurrence of R<sup>sp</sup> is hydrogen.
20. **(Original)** The construct of claim 1 having the structure:

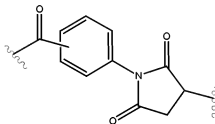


21. **(Original)** The construct of claim 1, 14, 15 or 20, wherein the linker is -O-, -NR<sub>G</sub>-, -NR<sub>G</sub>(aliphatic)NR<sub>J</sub>-, -NR<sub>G</sub>(heteroaliphatic)NR<sub>J</sub>-, -(aliphatic)NR<sub>J</sub>-, -(heteroaliphatic)NR<sub>J</sub>-, -O(aliphatic)NR<sub>J</sub>-, -O(heteroaliphatic)NR<sub>J</sub>-, -NR<sub>G</sub>(aliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, -NR<sub>G</sub>(heteroaliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, -(aliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, -(heteroaliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, -O(aliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, -O(heteroaliphatic)NR<sub>J</sub>(C=O)(CR<sub>H</sub>R<sub>I</sub>)<sub>k</sub>S-, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester, wherein each occurrence of k is independently 1-5; wherein each occurrence of R<sub>G</sub>, R<sub>H</sub>, R<sub>I</sub> or R<sub>J</sub> is independently hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic moiety, or a substituted or

unsubstituted aryl moiety, and wherein each aliphatic or heteroaliphatic moiety is independently substituted or unsubstituted, linear or branched, cyclic or acyclic.

22. **(Original)** The construct of claim 21, wherein the linker is -O-,  $-NR_G(CR_HR_I)_kNR_J-$ ,  $-NR_G(CR_HR_I)_kNR_J(C=O)(CR_HR_I)_kS-$ ,  $-NR_G-$ ,  $-(CR_HR_I)_kNR_I-$ ,  $-O(CR_HR_I)_kNR_J$ , an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester, wherein each occurrence of k is independently 1-5, wherein each occurrence of  $R_G$ ,  $R_H$ ,  $R_I$  or  $R_J$  is independently hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic moiety, or a substituted or unsubstituted aryl moiety.

23. **(Original)** The construct of claim 1, 14, 15 or 20, wherein q is 1 and the crosslinker is a fragment having the structure:



whereby said structure is generated upon conjugation of maleimidobenzoic acid N-hydroxy succinimide ester with a linker.

24. **(Original)** The construct of claim 1, 14 or 15, wherein R is hydrogen and q is 0.

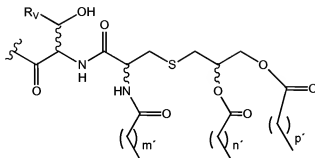
25. **(Original)** The construct of claim 1, 14 or 15, wherein R is an immunogenic carrier.

26. **(Original)** The construct of claim 25 wherein the immunogenic carrier is a protein, peptide or lipid.



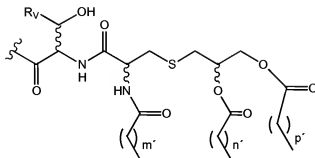
27. **(Original)** The construct of claim 26 wherein the carrier is KLH, polylysine, HSA or BSA.

28. **(Original)** The construct of claim 1, 14 or 15, wherein q is 0 and R is a lipid immunogenic carrier having the structure:



wherein  $m'$ ,  $n'$  and  $p'$  are each independently integers between about 8 and 20; and  $R_v$  is hydrogen, substituted or unsubstituted linear or branched chain lower alkyl or substituted or unsubstituted phenyl.

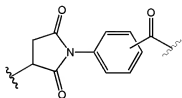
29. **(Original)** The construct of claim 20, wherein q is 0 and the carrier is a lipid immunogenic carrier having the structure:



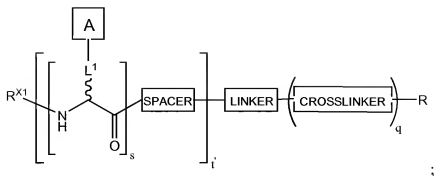
wherein  $m'$ ,  $n'$  and  $p'$  are each independently integers between about 8 and 20; and  $R_v$  is hydrogen, substituted or unsubstituted linear or branched chain lower alkyl or substituted or unsubstituted phenyl.

30. **(Original)** The construct of claim 28 wherein  $m'$ ,  $n'$  and  $p'$  are each 14 and the lipid is tripalmitoyl-S-glycerylcysteinylserine.

31. **(Original)** The construct of claim 1, 14 or 15, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, Le<sup>y</sup>, Le<sup>x</sup>, N3, Tn, STN, 2,6-STn, (2,3)ST, Gb3 or TF.
32. **(Previously Presented)** The construct of claim 1, 14, 15 or 20, wherein the linker is a moiety having the structure  $-\text{NH}(\text{CH}_2)_t\text{NHC}(=\text{O})(\text{CH}_2)_v\text{S}-$ ; wherein  $t''$  and  $v$  are each independently integers from 1-6.
33. **(Previously Presented)** The construct of claim 1, 14 or 15, wherein  $n$  and  $q$  are each 0,  $R$  is hydrogen and the linker is a moiety having the structure  $-\text{NH}(\text{CH}_2)_t\text{NHC}(=\text{O})(\text{CH}_2)_v\text{S}-$  wherein  $t''$  and  $v$  are each independently integers from 1-6.
34. **(Previously Presented)** The construct of claim 1, 14 or 15, wherein  $n$  is 0,  $q$  is 1,  $R$  is KLH, the linker is a moiety having the structure  $-\text{NH}(\text{CH}_2)_t\text{NHC}(=\text{O})(\text{CH}_2)_v\text{S}-$  wherein  $t''$  and  $v$  are each independently integers from 1-6, and the crosslinker is a moiety having the structure:



35. **(Previously Presented)** The construct of claim 32 wherein  $t''$  is 3 and  $v$  is 1.
36. **(Previously Presented)** A method for the synthesis of clustered multi-antigenic constructs having the structure:



wherein q is 0 or 1;

each occurrence of s is independently an integer from 2-20;

t' is an integer from 2-6;

R<sup>X1</sup> is hydrogen, alkyl, acyl, aryl, heteroaryl, -alkyl(aryl), -alkyl(heteroaryl), a nitrogen protecting group, an amino acid or a protected amino acid;

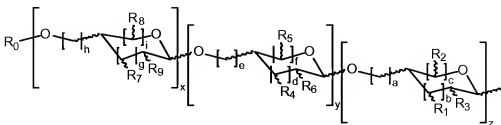
R is hydrogen or an immunogenic carrier;

each occurrence of the spacer is independently a substituted or unsubstituted aliphatic, heteroaliphatic, aryl, heteroaryl or peptidic moiety;

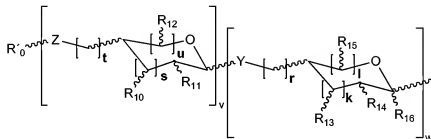
the linker is either a free carboxylic acid, -O-, (carboxamido)alkyl carboxamide, MBS, primary carboxamide, mono- or dialkyl carboxamide, mono- or diarylcarboxamide, linear or branched chain (carboxy)alkyl carboxamide, linear or branched chain (alkoxycarbonyl)alkyl-carboxamide, linear or branched chain (carboxy)arylalkylcarboxamide, linear or branched chain (alkoxycarbonyl)alkylcarboxamide, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester;

each occurrence of L<sup>1</sup> is independently a substituted or unsubstituted aliphatic or heteroaliphatic moiety;

each occurrence of A is independently a carbohydrate domain having the structure:



wherein a, b, c, d, e, f, g, h, i, x, y and z are independently 0, 1, 2 or 3, with the proviso that the x, y and z bracketed structures represent pyranose moieties and the sum of b and c is 2, the sum of d and f is 2, and the sum of g and i is 2, and with the proviso that x, y and z are not simultaneously 0; wherein  $R_0$  is hydrogen, a linear or branched chain alkyl, acyl, arylalkyl or aryl group; wherein each occurrence of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$  and  $R_9$  is independently hydrogen, OH,  $OR^i$ ,  $NHR^i$ ,  $NHCOR^i$ , F,  $CH_2OH$ ,  $CH_2OR^i$ , a substituted or unsubstituted linear or branched chain alkyl, (mono-, di- or tri)hydroxyalkyl, (mono-, di- or tri)acyloxyalkyl, arylalkyl or aryl group; wherein each occurrence of  $R^i$  is independently hydrogen, CHO,  $COOR^{ii}$ , or a substituted or unsubstituted linear or branched chain alkyl, acyl, arylalkyl or aryl group or a saccharide moiety having the structure:

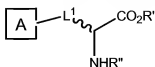


wherein Y and Z are independently NH or O; wherein k, l, r, s, t, u, v and w are each independently 0, 1 or 2; with the proviso that the v and w bracketed structures represent pyranose moieties and the sum of l and k is 1 or 2, and the sum of s and u is 2, and with the proviso that v and w are not simultaneously 0; wherein  $R'_0$  is hydrogen, a linear or branched chain alkyl, acyl, arylalkyl or aryl group; wherein each occurrence of  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{13}$ ,  $R_{14}$  and  $R_{15}$  is independently hydrogen, OH,  $OR^{iii}$ ,  $NHR^{iii}$ ,  $NHCOR^{iii}$ , F,  $CH_2OH$ ,  $CH_2OR^{iii}$ , or a substituted or unsubstituted linear or branched chain alkyl, (mono-, di- or tri)hydroxyalkyl, (mono-, di- or tri)acyloxyalkyl, arylalkyl or aryl group; wherein each occurrence of  $R_{16}$  is hydrogen, COOH,  $COOR^{ii}$ ,  $CONHR^{ii}$ , a substituted or unsubstituted linear or branched chain alkyl or aryl group; wherein each occurrence of  $R^{iii}$  is hydrogen, CHO,  $COOR^{iv}$ , or a substituted or unsubstituted linear or branched chain alkyl, acyl, arylalkyl or aryl group; and wherein each occurrence of  $R^{ii}$  and  $R^{iv}$  are each independently H, or a substituted or unsubstituted linear or branched chain alkyl, arylalkyl or aryl group; and wherein each glycosidic moiety is either  $\alpha$ - or  $\beta$ -linked to an amino acid;

with the limitation that each occurrence of A independently comprises a carbohydrate domain, or elongated version thereof, that is present on tumor cells;  
 wherein within each bracketed structure s, independently, each occurrence of A is the same

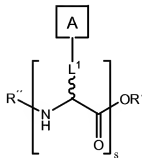
wherein said method comprises steps of:

(a) providing a glycoamino acid having the structure:



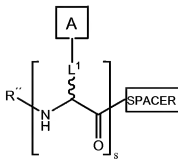
wherein A is a carbohydrate domain as described above;

(b) reacting s occurrences of said glycoamino acid under suitable conditions to generate a glycopeptide having the structure:

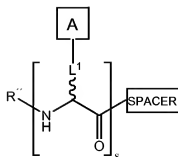


wherein s is an integer from 2-20; each occurrence of A is the same within the bracketed glycopeptide s; R¹ is hydrogen or a protecting group; and R² is hydrogen, a protecting group, an amino acid or a protected amino acid;

(c) reacting said glycopeptide with a spacer under suitable conditions to generate a spacer construct having the structure:

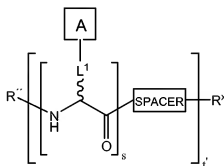


(d) Repeating steps (a) through (c) t'-1 times to generate t'-1 spacer constructs each independently having the structure:



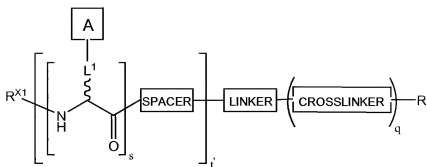
wherein, for each spacer construct,  $s$ ,  $L^1$ ,  $R''$  and the spacer moiety may be the same or different; and each spacer construct comprises a different carbohydrate domain A;

(e) Reacting the spacer construct formed in step (c) with the spacer constructs of step (d) under suitable conditions to generate a construct having the structure:



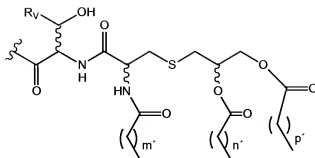
wherein  $R^x$  is a protecting group; each occurrence of A is the same within each bracketed structure  $s$ ; and each bracketed structure  $s$  comprises a different carbohydrate domain A; and

(f) Reacting the constructs of step (e) with a linker and optionally a crosslinker and/or an immunogenic carrier under suitable conditions to form the clustered multi-antigenic construct having the structure:



wherein q, linker, crosslinker and R are as defined above.

37. **(Original)** A pharmaceutical composition comprising:  
a construct of claim 1, and  
a pharmaceutically suitable carrier.
38. **(Original)** The pharmaceutical composition of claim 37, wherein the construct is conjugated to an immunogenic carrier.
39. **(Original)** A pharmaceutical composition comprising:  
a pharmaceutically acceptable carrier;  
an immunogenic carrier; and  
a multi-antigenic clustered construct of claim 1;  
whereby the construct has not been conjugated to the immunogenic carrier.
40. **(Original)** The pharmaceutical composition of claim 37 or 39, wherein the immunogenic carrier is bovine serum albumin, polylysine or keyhole limpet hemocyanin.
41. **(Original)** The pharmaceutical composition of claim 37 or 39, wherein the construct does not comprise a crosslinker and the immunogenic carrier is a lipid having the structure:



wherein  $m'$ ,  $n'$  and  $p'$  are each independently integers between about 8 and 20; and  $R_V$  is hydrogen, substituted or unsubstituted linear or branched chain lower alkyl or substituted or unsubstituted phenyl.

42. **(Original)** The pharmaceutical composition of claim 41, wherein  $m'$ ,  $n'$  and  $p'$  are each 14 and the lipid is tripalmitoyl-S-glycerylcysteinylserine.

43. **(Original)** The pharmaceutical composition of claim 37 or 39, further comprising one or more immunological adjuvants.

44. **(Original)** The pharmaceutical composition of claim 43, wherein at least one of said one or more immunological adjuvants is a saponin adjuvant.

45. **(Original)** The pharmaceutical composition of claim 44, wherein the saponin adjuvant is GPI-0100.

46. **(Original)** The pharmaceutical composition of claim 43, wherein at least one of said one or more immunological adjuvants is bacteria or liposomes.

47. **(Original)** The pharmaceutical composition of claim 46, wherein the immunological adjuvant is Salmonella minnesota cells, bacille Calmette-Guerin or QS21.

48. **(Withdrawn)** A method of treating cancer in a subject suffering therefrom comprising:



administering to a subject a therapeutically effective amount of a clustered multi-antigenic construct of claim 1,  
and a pharmaceutically suitable carrier.

49. **(Withdrawn)** The method of claim 48, wherein the construct is conjugated to an immunogenic carrier.

50. **(Withdrawn)** The method of claim 48, wherein the construct has not been conjugated to a carrier, and the method further comprises administering an immunogenic carrier.

51. **(Withdrawn)** The method of claim 48, wherein said method comprises preventing the recurrence of cancer in a subject.

52. **(Withdrawn)** The method of claim 48 or 51, wherein the cancer is a solid tumor.

53. **(Withdrawn)** The method of claim 48 or 51, wherein the subject is in clinical remission, or where the subject has been treated by surgery, has limited unresected disease.

54. **(Withdrawn)** A method of inducing antibodies in a subject, wherein the antibodies are capable of specifically binding with tumor cells, which comprises administering to the subject an amount of a clustered multi-antigenic construct of claim 1 effective to induce the antibodies.

55. **(Withdrawn)** The method of claim 54, wherein the glycopeptide is conjugated to an immunogenic carrier.

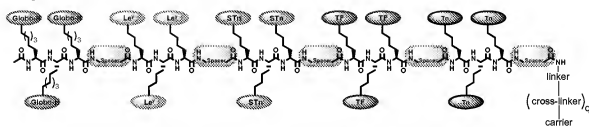
56. **(Withdrawn)** A method of inducing antibodies in a subject, wherein the antibodies are capable

of specifically binding with tumor cells, which comprises administering to the subject:

an amount of a clustered multi-antigenic construct of claim 1; wherein R is hydrogen; and wherein the amount of construct is effective to induce the antibodies.

57. **(Withdrawn)** The method of claim 56, wherein the method further comprises administering an immunogenic carrier.

58. **(Withdrawn)** The method of claim 48, 54 or 56, wherein the clustered multi-antigenic construct has the structure:



wherein q is 0 or 1; the spacer, for each occurrence, is independently a substituted or unsubstituted C<sub>1-6</sub>alkylidene or C<sub>2-6</sub>alkenylidene chain wherein up to two non-adjacent methylene units are independently optionally replaced by CO, CO<sub>2</sub>, COCO, CONR<sup>Z1</sup>, OCONR<sup>Z1</sup>, NR<sup>Z1</sup>NR<sup>Z2</sup>, NR<sup>Z1</sup>NR<sup>Z2</sup>CO, NR<sup>Z1</sup>CO, NR<sup>Z1</sup>CO<sub>2</sub>, NR<sup>Z1</sup>CONR<sup>Z2</sup>, SO, SO<sub>2</sub>, NR<sup>Z1</sup>SO<sub>2</sub>, SO<sub>2</sub>NR<sup>Z1</sup>, NR<sup>Z1</sup>SO<sub>2</sub>NR<sup>Z2</sup>, O, S, or NR<sup>Z1</sup>; wherein each occurrence of R<sup>Z1</sup> and R<sup>Z2</sup> is independently hydrogen, alkyl, heteroalkyl, aryl, heteroaryl or acyl; a peptidyl moiety or a bivalent aryl or heteroaryl moiety; the linker is either a free carboxylic acid, -O-, (carboxamido)alkyl carboxamide, MBS, primary carboxamide, mono- or dialkyl carboxamide, mono- or diarylcarboxamide, linear or branched chain (carboxy)alkyl carboxamide, linear or branched chain (alkoxycarbonyl)alkyl-carboxamide, linear or branched chain (carboxy)arylalkylcarboxamide, linear or branched chain (alkoxycarbonyl)alkylcarboxamide, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester; and the carrier is an immunogenic carrier.